



### LEGEND

#### INTRUSIVE ROCKS

##### TERTIARY MIDDLE EOCENE

###### GOOSLY INTRUSIVE SUITE

###### EAST STOCK

Dike and Sill Phases

8g

BIOTITE MONZONITE DIKES Equigranular. Large dike-like masses cut earlier intrusive phases and coeval Goosly Lake Volcanics. Characteristic 030° strike.

8f

MONZONITE PORPHYRY SILLS Sill complex interlayered with screens of pyritic Goosly Lake Volcanics - may represent the roof zone of the intrusive complex.

8e

DIKES AND SILLS Mainly bladed feldspar porphyry; minor andesite. Abundant (>15% by volume) to common (15% by volume) in Skeena Group strata and West Stock. Less common in East Stock; minor in Goosly Lake Volcanics.

Stocks and Plugs

8d

MONZONITE Coarse-grained, with trachytic bladed plagioclase phenocrysts. Plagioclase-orthoclase-quartz-hornblende-biotite-magnetite-apatite monzonite.

8c

MONZOGABBRO Intermediate phase, transitional between gabbro and monzonite. Plagioclase-orthoclase-augite-hornblende-biotite-quartz-magnetite-apatite.

8b

GABBRO Pyroxene-labradorite-biotite-magnetite-apatite gabbro. Coarse-grained, with trachytic bladed plagioclase phenocrysts.

8a

DIORITE Plagioclase-hornblende-biotite-magnetite-apatite rock. Coarse-grained, with trachytic bladed plagioclase phenocrysts.

##### LATE PALEOCENE

###### NANIKA INTRUSIVE SUITE

###### WEST STOCK

7c

Cu-Mo MINERALIZED QUARTZ MONZONITE Potassic, argillic, sericitic. Chalcopyrite molybdenite as disseminations, veinlets, local stockwork.

7b

ALTERED QUARTZ MONZONITE Pervasive sericite alteration, with widespread but weak sulphide mineralisation. Cu-Mo mineralisation at north end of intrusion; tetrahedrite veinlets at south end; small lens of Ag-sulphides in central area.

7a

QUARTZ MONZONITE Plagioclase-biotite-orthoclase porphyritic. Medium-grained. 57.2 ± 2.3 Ma.

#### STRATIFIED ROCKS

##### MIDDLE EOCENE

###### ENDAKO GROUP

###### BUCK CREEK VOLCANICS

6

BASALT Flows and breccias. Grey to black; plagioclase porphyritic. 47.3 ± 1.6 Ma

##### LATE PALEOCENE

###### OOTSA LAKE GROUP

###### GOOSLY LAKE VOLCANICS

5c

AMYGDALOIDAL ANDESITE Reddish purple, weakly trachytic flows. Minor fine plagioclase phenocrysts. Local biotite concentrations; minor apatite.

5b

TRACHYANDESITE Dark grey to purplish bladed feldspar porphyry flows. Local vesicles, commonly parallel to flow direction.

5a

BASAL BRECCIA Trachyandesite flow breccia

##### EARLY CRETACEOUS

###### SKEENA GROUP

###### Mount Ney Volcanics

###### Sedimentary-Volcanic Division

4

SANDSTONE AND CONGLOMERATE; volcaniclastic, well-bedded, interbedded. Minor intercalated well-bedded waterlain intermediate ash and dust tuff. Conformable, gradational lower contact with Pyroclastic Division.

###### Volcanic Flow Division

3

ANDESITE AND DACITE FLOWS Plagioclase porphyritic. Interlayered with Sedimentary-Volcanic Division along strike; interlayered with Pyroclastic Division near lower contact.

###### Pyroclastic Division

2b

DUST TUFF Distal dacitic dust tuff; minor ash and lapilli tuff. Massive. Local brecciated dust tuff is sulphide-cemented. Lenses of chert pebble conglomerate near base. Interlayered lower contact; gradational upper contact.

2a

PYROCLASTIC FLOWS Proximal dacitic, fragment-poor pyroclastic flows, coarse fragment-rich breccias, welded tuff; minor ash tuff. Crude bedding. Lenses and interbeds of volcanic conglomerate and rare volcanic sandstone. Clasts primarily dacite porphyry; minor tuff and chert pebble conglomerate clasts.

###### Bulkley Canyon Formation

###### Clastic Division

1b

CHERT PEBBLE CONGLOMERATE Conglomerate, sandstone; local thin, laminated lenses of welded felsic tuff. Graded beds. Interlayered lower and upper contacts.

1a

POLYMICTIC CONGLOMERATE Conglomerate and sandstone. Graded beds. Interlayered upper contact.

To accompany a report by W. Gruenwald, P. Geo.